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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/730,576	12/08/2003	Frank S. Filz	BEA9-2003-0016-US1	3051
49056 7590 08/17/2007 LIEBERMAN & BRANDSDORFER, LLC 802 STILL CREEK LANE			EXAMINER	
			Johnson, Johnese T	
GAITHERSBURG, MD 20878			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Commons	10/730,576	FILZ, FRANK S.			
Office Action Summary	Examiner	Art Unit			
	Johnese Johnson	2166			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on <u>06 Ju</u>	ne 2007				
· —	· ,—				
. —	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
·					
Disposition of Claims					
4) Claim(s) 1-12,14,16-19 and 21-23 is/are pendir	ng in the application.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	~				
6) Claim(s) <u>1-12,14,16-19 and 21-23</u> is/are rejected	ed.				
7) Claim(s) is/are objected to.	•				
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9) ☐ The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application					
Paper No(s)/Mail Date 6)					

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DETAILED ACTION

Remarks

1. In response to the Amendment filed on 06 June 2007, claims 1-12, 14, 16-19, and 21-23 are pending. Claims 13, 15, and 20 are cancelled.

2. The previous claim rejections under 35 USC 101 have been overcome by applicant's amendments.

Claim Objections

3. Claim 14 is objected to because of the following informalities: There is a gap between the medium and the instructions. The claim should read, for example, "a computer-readable recordable data storage medium **comprising** instructions to provide" or "a computer-readable recordable data storage medium **including** instructions to provide". Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-12, 14, 16-19, and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Short et al. (US Pat. No. 6,178,529) and in view of Szabo et al. (US Pat. No. 7.065,746).

As to claim 1, Short et al. disclose:

creating a version control system including a disk header record (see col. 4, lines 30-31 - every disk in the RAID has a header file which is the first file that is read when the disk is read) and a version control record, said version control record comprising all versions of each type of data structure in said shared resource (see col. 9, lines 20-22); and validating software compatibility of a new cluster member with storage media in said shared resource assigned to the cluster using the version control record prior to a new cluster member joining said cluster (see col. 5, lines 12-21).

However, Short et al. does not explicitly disclose:

said version control record to organize meta data in a known location in a shared resource in communication with said cluster.

Szabo et al. discloses:

said version control record to organize meta data in a known location in a shared resource in communication with said cluster (see <u>Szabo et al.</u>, col. 5, lines 17-38).

It would have been obvious to have modified the teachings of <u>Short et al.</u> by the teachings of <u>Szabo et al.</u> to provide a computerized method and system of managing the integrity of an integrated applications environment because a highly integrated system can create interdependencies where a small change in one application may

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adversely impact obvious or seemingly unrelated applications. Each change can cause one or more component that depends on the changed application to become unstable, thereby compromising the integrity of the integration (see <u>Szabo et al.</u> col. 1. lines 53-55 and <u>Szabo et al.</u> col. 1, lines 23-26, 29-32).

As to claim 2, Short et al., as modified, disclose:

scanning a data structure type record within said shared resource prior to accessing said version control record (see <u>Short et al.</u>, col. 9, lines 15-22).

As to claim 3, Short et al., as modified, disclose:

wherein the step of validating software compatibility of a new cluster member includes scanning said version control record for said data structure version conflict (see Short et al., col. 9, lines 15-22).

As to claim 4, Short et al., as modified, disclose:

maintaining a table within said version control record of an operating software version of each node in said cluster (see <u>Short et al.</u>, col. 9, lines 33-35).

As to claim 5, Short et al., as modified, disclose:

validating compatibility of each node in said cluster with said operating software version table (see <u>Short et al.</u>, col. 9, lines 15-22, 33-35 and <u>Short et al.</u>, col. 6, lines 59-62)

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prior to upgrading each data structure in said shared resource (see <u>Short et al.</u>, col. 5, lines 36-38 – global update).

As to claim 6, Short et al., as modified, disclose:

wherein the step of validating compatibility of each of said nodes in said cluster is inclusive of inactive cluster nodes (see <u>Short et al.</u>, col. 5, lines 12-21).

As to claim 7, Short et al., as modified, disclose:

wherein said shared resource is selected from a group consisting of: a storage area network, and shared memory (see <u>Short et al.</u>, col. 2, line 56).

As to claim 8, Short et al. disclose:

at least two nodes adapted to operate in a computer cluster (wherein "adapted to" is being interpreted as intended use recitation - see col. 4, line 40);

a version control system having a disk header and a version control record, (see col. 9, lines 33-35);

said version control record inclusive of all versions of each type of data structure in said shared resource (see col. 9, lines 33-35); and

a membership manager adapted to validate compatibility of a new cluster member with each of said data structure with use of said version control record prior to acceptance of said new cluster member (see col. 9, lines 12-22 and 33-35).

However, **Short et al.** does not explicitly disclose:

said version control record to organize meta data in a known location in a shared resource in communication with said cluster.

Szabo et al. discloses:

said version control record to organize meta data in a known location in a shared resource in communication with said cluster (see col. 5, lines 17-38).

It would have been obvious to have modified the teachings of <u>Short et al.</u> by the teachings of <u>Szabo et al.</u> to provide a computerized method and system of managing the integrity of an integrated applications environment because a highly integrated system can create interdependencies where a small change in one application may adversely impact obvious or seemingly unrelated applications. Each change can cause one or more component that depends on the changed application to become unstable, thereby compromising the integrity of the integration (see <u>Szabo et al.</u> col. 1. lines 53-55 and <u>Szabo et al.</u> col. 1, lines 23-26, 29-32).

As to claim 9, Short et al., as modified, disclose:

an operating software version table within said version control record (see Short et al., col. 9, lines 33-35).

As to claim 10, Short et al., as modified, disclose:

a validation manager adapted to validate compatibility of an existing cluster member with said operating software version table (see <u>Short et al.</u>, col. 9, lines 15-22, 33-35

and Short et al., col. 6, lines 59-62) prior to an upgrade of each data structure in said shared storage see Short et al., col. 5, lines 36-38 – global update).

As to claim 11, Short et al., as modified, disclose:

wherein said validation manager is inclusive of inactive cluster nodes (see <u>Short et al.</u>, col. 5, lines 12-21).

As to claim 12, Short et al., as modified, disclose:

a version manager adapted to scan a data structure type record within said shared resource prior to access of said version control record by a cluster member (see <u>Short et al.</u>, col. 5, lines 12-21).

As to claim 14, Short et al. disclose:

A computer-readable recordable storage medium;

instructions to provide a version control record system including a disk header record (see col. 4, lines 30-31 - every disk in the RAID has a header file which is the first file that is read when the disk is read) and, said version control record inclusive of each type of data structure in said shared resource; (see col. 9, lines 33-35); and instructions to validate compatibility of a new cluster member with storage media in said shared resource assigned to a cluster using said version control record prior to said new cluster member joining said cluster (see col. 5, lines 12-21).

However, Short et al. do not explicitly disclose:

a version control record, said version control record to organize meta data in a known location in a shared resource

Szabo et al. discloses:

a version control record, said version control record to organize meta data in a known location in a shared resource (see col. 5, lines 17-38).

It would have been obvious to have modified the teachings of <u>Short et al.</u> by the teachings of <u>Szabo et al.</u> to provide a computerized method and system of managing the integrity of an integrated applications environment because a highly integrated system can create interdependencies where a small change in one application may adversely impact obvious or seemingly unrelated applications. Each change can cause one or more component that depends on the changed application to become unstable, thereby compromising the integrity of the integration (see <u>Szabo et al.</u> col. 1. lines 53-55 and Szabo et al. col. 1, lines 23-26, 29-32).

As to claim 16, Short et al., as modified, disclose:

further comprising instructions to validate compatibility of each cluster member (see Short et al., col. 9, lines 15-22, 33-35 and Short et al., col. 6, lines 59-62) prior to upgrading each data structure in said shared resource (see Short et al., col. 5, lines 36-38 – global update).

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As to claim 17, Short et al., as modified, disclose:

wherein said compatibility validation means is an operating software version table within said version control record (see <u>Short et al.</u>, col. 9, lines 33-35).

As to claim 18, Short et al., as modified, disclose:

wherein said compatibility validation means includes inactive cluster nodes (see <u>Short</u> et al., col. 5, lines 12-21).

As to claim 19, Short et al., as modified, disclose:

Instructions to scan a data structure type record prior to access of said version control record (see Short et al., col. 5, lines 12-21).

As to claim 21, Short et al., as modified, disclose:

wherein the step of validating software compatibility of said new cluster member with storage media (see <u>Short et al.</u>, col. 5, lines 12-21) includes determining if said header record of a master disk in said shared resource (see <u>Short et al.</u>, col. 4, lines 30-31 - every disk in the RAID has a header file which is the first file that is read when the disk is read) is compatible with software operating in the new cluster member (see <u>Short et al.</u>, col. 9, lines 15-22, 33-35 and <u>Short et al.</u>, col. 6, lines 59-62).

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As to claim 22, Short et al., as modified, disclose:

wherein said membership manager (see col. 4, lines 63-64) determines if said header record of a master disk in said shared resource (see <u>Short et al.</u>, col. 4, lines 30-31 - every disk in the RAID has a header file which is the first file that is read when the disk is read) is compatible with software operating in the new cluster member (see <u>Short et al.</u>, col. 9, lines 15-22, 33-35 and <u>Short et al.</u>, col. 6, lines 59-62).

As to claim 23, Short et al., as modified, disclose:

wherein the instructions (see <u>Short et al.</u>, col. 2, line 41) to validating software compatibility of said new cluster member with storage media (see col. 5, lines 12-21) includes instructions to if said header record of a master disk in said shared resource (see <u>Short et al.</u>, col. 4, lines 30-31 - every disk in the RAID has a header file which is the first file that is read when the disk is read) is compatible with software operating in the new cluster member (see <u>Short et al.</u>, col. 9, lines 15-22, 33-35 and <u>Short et al.</u>, col. 6, lines 59-62).

Response to Arguments

6. Applicant's arguments with respect to claims 1, 8, and 14 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johnese Johnson whose telephone number is 571-270-1097. The examiner can normally be reached on 4/5/9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on 571-272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

10 August 2007

IJ

HOSAIN ALAM
SUPERVISORY PATENT EXAMINER

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